(12) SOLICITUD INTERNACIONAL PUBLICADA EN VIRTUD DEL TRATADO DE COOPERACIÓN EN MATERIA DE PATENTES (PCT)

(19) Organización Mundial de la Propiedad Intelectual Oficina internacional

TIPO

<u> 1 1001 Berketal i Kordin Grita kira i di kordi berketa ikan ekselikin 1660 ikan ikan kira</u>

(43) Fecha de publicación internacional l de Febrero de 2001 (01.02.2001)

PCT

(10) Número de Publicación Internacional WO 01/07148 A1

- (51) Clasificación Internacional de Patentes*: B01D 53/22. 67/00, 71/68. 69/08
- (21) Número de la solicitud internacional: PCT/ES99/00279
- (22) Fecha de presentación internacional:
 27 de Agosto de 1999 (27.08.1999)
- (25) Idioma de presentación:

español

(26) Idioma de publicación:

español

- (30) Datos relativos a la prioridad: P 9901652 22 de Julio de 1999 (22.07.1999) ES
- (71) Solicitante (para todos los Estados designados salvo US): DAVID SYSTEMS TECHNOLOGY, S.L. [ES/ES]; Carbonero y Sol. 30, E-28006 Madrid (ES).
- (72) Inventores; ¢
- (75) Inventores/Solicitantes (para US solamente): BLACH VIZOSO, Ricardo [ES/ES]; Edificio Enekuri, Pabellon 10, E-48950 Asua-Erandio (ES). KOTENKO, Alexander [RU/ES]; Edificio Enekuri, Pabellon 10, E-48950 Asua-Erandio (ES). AMIRKHANOV, Dimitri [RU/ES]; Edificio Enekuri, Pabellon 10, E-48950 Asua-Erandio (ES). TULSKY, Mikhail [RU/ES]; Edificio Enekuri,

Pabelión 10, E-48950 Asua-Erandio (ES). FATEEV, Vladimir [RU/ES]; Edificio Enekuri, Pabellón 10, E-48950 Asua-Erandio (ES).

- (74) Mandatario: CARPINTERO LOPEZ, Francisco: Herrero & Asociados, S.L., Alcalá, 35, E-28014 Madrid (ES).
- (81) Estados designados (nacional): AE. AL., AM., AT., AU., AZ. BA, BB, BG, BR. BY, CA. CH., CN., CU., CZ. DE, DK., EE. ES., FI., GB., GD., GE., GH., GM., HR., HU. ID., IL., IN. IS, IP., KE., KG, KP., KR., KZ., LC., LK., LR., LS., LT., LU., LV., MD., MG., MK., MN., MW., MX., NO, NZ., PL., PT., RO, RU., SD., SE, SG., SI., SK., SL., TJ., TM., TR., TT., UA., UG., US., UZ., VN., YU., ZA., ZW.
- (84) Estados designados (regional): patente ARIPO (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), patente euroasiática (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), patente europea (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), patente OAPI (BF, BI, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Publicada:

Con informe de büsqueda internacional.

Para códigos de dos letras y otras abreviaturas, véase la sección "Guidance Notes on Codes and Abbreviations" que aparece al principio de cada número regular de la Gaceta del PCT.

(54) Title: POLYMER MEMBRANE FOR THE SEPARATION OF GAS MIXTURE

(54) Título: MEMBRANA DE POLIMERO PARA LA SEPARACION DE MEZCLAS DE GASES

(57) Abstract: The membrane of the invention comprises asymmetric hollow fiber, obtained from polyethersulfur for pervaporation purposes, and treated with mixtures of liquids (C2H50H+X) wherein X is toluene, accome, dimethylformamide with a content between 7 and 12 % by volume of the mixture, and further treated with a solution at 2.5 % by volume of treathane siloxane in isopropylic alcohol.

(57) Resumen: Esta membrana comprende fibra hucca asimétrica, a partir de policiersulfuro con fines de pervaporación, tratada con mezclas de líquidos (C2H50H+X) en la que X=tolueno, acetona, dimerilformamida con un contenido entre un 7 - 12 % en volumen de la mezcla, tratando posteriormente con una disolución al 2,5 % en volumen de ureranosiloxano en alcohol isopropílico.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES 99/00279

A. CLASSIFICATION OF SUBJECT MATTER			
IPC 6 B01D 53/22; 67/00; 71/68; 69/08			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
IPC 6 BOLD			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the interpational search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
x	US-4828585 A (CHERRY C.CHIAO) 9 May 1989 (09.05.89); Example 2		1-2
A	US-5085676 A (OKAN M. EKINER et al.) 4 February 1992 (04.02.92)		
A	US-4746333 A (KLAUS V, PEINEMMAN) 24 May 1988 (24.05.88)		
,			
Furthe	er documents are listed in the continuation of Box C.	X See patent family annex.	
Special categories of cited documents: "A" document defining the general state of the art which is not considered "A" minimile or theory underlying the invention.			
to be of	to be of particular relevance		
"" earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
Date of the actual completion of the international search		Date of mailing of the international search report	
22 December 1999 (22.12.99)		28 December 1999 (28.12.99)	
Name and mailing address of the ISA/		Authorized officer	
S.P.T.O			'
Facsimile No.		Telephone No.	

10/048140 531 Re PCT/PTC 22 JAN 2002

ENGLISH TEXT AS ORIGINALLY FILED